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CLAIMS:

- A recombinant viral construct comprising an avipox viral vector or functional 1. NA derivative thereof which incorporates a first nucleic acid molecule encoding one or more HIV antigens or derivatives thereof and a second nucleic acid molecule encoding a cytokine or functional derivative thereof wherein said recombinant viral construct is effective in inducing, enhancing or otherwise stimulating an immune response to said HIV antigen.
 - The recombinant viral construct according to claim 1 wherein said HIV is HIV-1. 2.
 - The recombinant viral construct according to claim 2 wherein said HIV-1 antigen is 3. Gag and/or Pol.
 - The recombinant viral construct according to claims 1, 2 or 3 wherein said 4. cytokine is γ -interferon.
 - The recombinant viral construct according to claims 1, 2 or 3 wherein said 5. cytokine is IL-2.
 - The recombinant viral construct according to any one of claims 1-5 wherein said 6. avipox virus is fowl pox virus.
 - The recombinant viral construct according to any one of claims 1-5 wherein said 7. avipox virus is canary pox virus. 25,17,18,17,16,
- The recombinant viral construct according to claim 1 wherein said avipox viral 8. vector is fowl pox virus, said HIV-1 antigens are Gag and/or Pol and said cytokine is y-interferon.

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- 9. A vaccine composition comprising an avipox viral vector or functional derivative thereof which incorporates a first nucleic acid molecule encoding one or more HIV antigens or derivatives thereof and a second nucleic acid molecule encoding a cytokine or functional derivative thereof wherein said recombinant viral construct is effective in inducing, enhancing or otherwise stimulating an immune response to said HIV antigen.
- 10. The vaccine composition according to claim 9 wherein said HIV is HIV-1.
- 11. The vaccine composition according to claim 10 wherein said HIV-1 antigen is Gag and/or Pol.
- 12. The vaccine composition according according to claims 9, 10 or 11 wherein said cytokine is γ -interferon.
- 13. The vaccine composition according to claims 9, 10 or 11 wherein said cytokine is IL-2.
- 14. The vaccine composition according to any one of claims 9-13 wherein said avipox virus is fowl pox virus.
- 15. The vaccine composition according to any one of claims 9-13 wherein said avipox virus is canary pox virus.
- 16. The vaccine composition according to claim 9 wherein said avipox viral vector is fowl pox virus, said HIV-1 antigens are Gag and/or Pol and said cytokine is γ-interferon.
- 17. A pharmaceutical composition comprising the recombinant viral construct according to any one of claims 1-8 together with one or more pharmaceutically acceptable carriers and/or diluents.

- A method of inducing, enhancing or otherwise stimulating, in a mammal, an 18. immune response to HIV said method comprising administering to said mammal an effective amount of the viral construct according to any one of claims 1-8 for a time and under conditions sufficient to induce, enhance or otherwise stimulate an immune response to one or more HIV antigens.
- The method according to claim 18 wherein said HIV is HIV-1. 19.
- The method according to claim 19 wherein said viral construct is a viral construct 20. according to claim 3.
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- A method of inducing, enhancing or otherwise stimulating, in a mammal, an 21. immune response to HIV said method comprising administering to said mammal an effective amount of the vaccine composition according to any one of claims 9-16 for a time and under conditions sufficient to induce, enhance or otherwise stimulate an immune response to one or more HIV antigens.
 - The method according to claim 21 wherein said HIV is HIV-1. 22.
 - The method according to claim 22 wherein said vaccine composition is a 23. composition according to claim 11.
 - A method of treating a mammal, said method comprising administering to said 24. mammal an effective amount of the viral construct according to any one of claims 1-8 for a time and under conditions sufficient to induce, enhance or otherwise stimulate an immune response to one or more HIV antigens.
 - The method according to claim 24 wherein said HIV is HIV-1. 25.
 - The method according to claim 25 wherein said viral construct is a viral construct **2**6. according to claim 3.

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- 27. A method of treating a mammal, said method comprising administering to said mammal an effective amount of the vaccine composition according to any one of claims 1-8 for a time and under conditions sufficient to induce, enhance or otherwise stimulate an immune response to one or more HIV antigens.
- 28. The method according to claim 27 wherein said HIV is HIV-1.
- 29. The method according to claim 28 wherein said viral construct is a viral construct according to claim 3.
- 30. A method for the treatment and/or prophylaxis of HIV infection or AIDS in a mammal said method comprising administering to said mammal an effective amount of the recombinant viral construct according to any one of claims 1-8 for a time and under conditions sufficient to induce, enhance or otherwise stimulate an immune response to one or more HIV antigens.
- 31. The method according to claim 30 wherein said HIV is HIV-1.
- 32. The method according to claim 31 wherein said viral construct is a viral construct according to claim 3.
- 33. A method for the treatment and/or prophylaxis of HIV infection or AIDS in a mammal said method comprising administering to said mammal an effective amount of the vaccine composition according to any one of claims 9-16 for a time and under conditions sufficient to induce, enhance or otherwise stimulate an immune response to one or more HIV antigens.
- 34. The method according to claim 33 wherein said HIV is HIV-1.
- 35. The method according to claim 34 wherein said vaccine composition is a composition according to claim 11.

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- Use of a recombinant viral construct according to any one of claims 1-8 in the manufacture of a medicament for the therapeutic and/or prophylactic treatment of HIV infection.
 - 37. Use according to claim 36 wherein said HIV is HIV-1.
- An(agent)useful for inducing, enhancing or otherwise stimulating, in a mammal, an immune response to HIV said agent comprising a recombinant viral construct according to any one of claims 1-8.